EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

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APPLICATION NUMBER

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APPLICANT:

SHIN ETSU CHEM CO LTD:

INVENTOR:

OHARA SAKAE:

INT.CL.

C08B 11/08 // A61K 9/16

TITLE

PRODUCTION OF HYDROXYPROPYLCELLULOSE HAVING LOW DEGREE OF

SUBSTITUTION

ABSTRACT :

PROBLEM TO BE SOLVED: To obtain the subject cellulose capable of increasing the granulation speed of a granular preparation by an extruding granulation method even in the case of adding the same in a large amount by controlling the amount of washing liquid for a crude hydroxypropylcellulose having a low degree of substitution obtained by reacting an alkali cellulose with propyleneoxide to leave a specific amount of propylene glycols as a reaction byproduct.

SOLUTION: This method for producing a hydroxypropylcellulose having a low degree of substitution comprises reacting an alkalicellulose containing sodium hydroxide with propyleneoxide, then dispersing the reaction mixture into a water containing 5-40 mol% acid (e.g.; acetic acid) required for neutralizing the all of sodium hydroxide to dissolve a part of the cellulose ether, and then adding the acid to neutralize the residual sodium hydroxide to obtain a crude hydroxypropylcellulose having a low degree of substitution. The obtained cellulose ether is washed with 30-80 fold weight hot water (usually, at ≥60°C temperature) to make 0.03-2 wt.% content of propylene glycols produced as a byproduct in the reaction of the cellulose ether formation and ≤1 wt.% ignition residue to obtain the objective cellulose.

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Patent Abstracts of Japan

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09088996

APPLICANT:

SHIN ETSU CHEM CO LTD;

INVENTOR:

OHARA SAKAE:

INT.CL.

C08B 11/08 A61J 3/02

TITLE

LOW-SUBSTITUTION-DEGREE HYDROXYPROPYLCELLULOSE POWDER

ABSTRACT :

PROBLEM TO BE SOLVED: To provide a low-substitution-degree hydroxypropylcellulose powder which is a powdery drug used as a disintegrator used in combination with medicinal components in the production of e.g. granulated medicines, can give granules of good disintegrability at a high granulation rate when used in an extrusion granulation and can give granules having a high bulk density when used in a fluidized bed granulation method.

SOLUTION: This powder has a viscosity of 5-100 cP (as measured in a 2 wt.% concentration solution in a 10 wt.% aqueous sodium hydroxide solution at 20°C), a content of water-solubles of 2-6 wt.%, a tapped apparent density of 0.55 g/cc or above, an angle of repose of 48° or below and a mean particle diameter of 45 μ m or below.

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